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|   |                        |  |
|---|------------------------|--|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><br><small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small> | Attorney Docket No.    | 35706.5800/66  |
|   | First Inventor         | Tang et al.  |
|   | Title                  | PLL/DLL Dual Loop Data Synchronization Utilizing a Granular Filter |
|   | Express Mail Label No. | EL626415855US  |

|  |   |
|--|---|
| <b>APPLICATION ELEMENTS</b><br><small>See MPEP chapter 600 concerning utility patent application contents.</small> | <b>ADDRESS TO:</b> Assistant Commissioner for Patents<br>Box Patent Application<br>Washington, D.C. 20231 |
|--|---|

- ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
- ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
- ☒ Specification [Total Pages 24]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 12]
- Oath or Declaration [Total Pages]
  - ☒ Newly executed (original or copy)
  - ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
    - ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76
- ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - ☐ Computer Readable Form (CRF)
  - Specification Sequence Listing on:
    - ☐ CD-ROM or CD-R (2 copies); or
    - ☐ paper
  - ☐ Statements verifying identity of above copies

| ACCOMPANYING APPLICATION PARTS      |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Assignment Papers (cover sheet & document(s))  |
| <input checked="" type="checkbox"/> | 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney<br><small>(when there is an assignee)</small> |
| <input type="checkbox"/>            | English Translation Document (if applicable)   |
| <input checked="" type="checkbox"/> | Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations                  |
| <input type="checkbox"/>            | Preliminary Amendment  |
| <input checked="" type="checkbox"/> | Return Receipt Postcard (MPEP 503)<br><small>(Should be specifically itemized)</small>                                       |
| <input type="checkbox"/>            | Certified Copy of Priority Document(s)<br><small>(if foreign priority is claimed)</small>                                    |
| <input type="checkbox"/>            | Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.          |
| <input type="checkbox"/>            | Other:   |

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Group / Art Unit \_\_\_\_\_

**For CONTINUATION OR DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

| 19. CORRESPONDENCE ADDRESS   |   |           |   |          |                |
|--|---|-----------|---|----------|----------------|
| <input type="checkbox"/> Customer Number or Bar Code Label<br><small>(Insert Customer No. or Attach bar code label here)</small> |   |           | or <input checked="" type="checkbox"/> Correspondence address below |          |                |
| Name   | Michelle R. Whittington, Esq.<br>SNELL & WILMER, L.L.C. |           |   |          |                |
| Address  | One Arizona Center<br>400 East Van Buren                |           |   |          |                |
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| Country  | U.S.  | Telephone | (602) 382-6275  | Fax      | (602) 382-6070 |

|                   |                                |                                   |                   |
|-------------------|--------------------------------|-----------------------------------|-------------------|
| Name (Print/Type) | Michelle R. Whittington        | Registration No. (Attorney/Agent) | 43,844            |
| Signature         | <i>Michelle R. Whittington</i> | Date                              | December 20, 2001 |

|   |  |                          |                   |
|---|--|--------------------------|-------------------|
| <h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2001</h2> <p style="font-size: small; margin: 5px 0;">Patent fees are subject to annual revision.</p> |  | <b>Complete if Known</b> |                   |
|   |  | Application Number       | TBA               |
|   |  | Filing Date              | December 20, 2001 |
|   |  | First Named Inventor     | Tang et al.       |
|   |  | Examiner Name            | TBA               |
|   |  | Group Art Unit           | TBA               |
|   |  | Attorney Docket No.      | 35706.5800/66     |
| TOTAL AMOUNT OF PAYMENT   |  | \$942.00                 |                   |

| METHOD OF PAYMENT  | FEE CALCULATION (continued)  |                       |   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
|--|--|-----------------------|---|-----------------|-----------------|----------|-----|-----|------------------------|--|-----|-----|-----|-----------------------|---|-----|-----|-----|----------------------|---------------------------------|-----|-----|-------|------------------------|---|-----|-----|------|---------------------------|---|--------------|-----|--------|-----|--|--------------|--------------|----------------|----------|---|-----------|-------|--------|--------------------|---|----------|--------------|--------------------|-----|--|--|---------------|---------------|-----------------|---|-----|-----|-------|--------------------------|--|-----|-----|-----|--------------------------------------|----------------------|-----|-----|-----|---|--|-----|-----|-----|---|------------------------------|-----|-----|-------|--|---|--------------|-----|-----|-----|-------------------------------------|---|-----|-------|-----|--|--|-----|-------|-----|------------------------------------|--|-----|-----|-----|----------------------|--|-----|-----|-----|---------------------|--|-----|-----|-----|-----------------------------------|--|-----|----|-----|--|--|-----|-----|-----|--|--|-----|----|-----|---|-------|-----|-----|-----|---|--|-----|-----|-----|--|--|-----|-----|-----|---|--|-----|-----|-----|---|--|---------------------------|--|--|--|--|
| <p><b>1.</b> <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number: <b>19-2814</b></p> <p>Deposit Account Name: <b>SNELL &amp; WILMER, L.L.C.</b></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status See 37 CFR § 1.27</p> <p><b>2.</b> <input type="checkbox"/> Payment Enclosed:</p> <p><input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>  | <p><b>3. ADDITIONAL FEES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65 Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25 Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130 Non - English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520 For filing a request for ex parte reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920* Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840* Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55 Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>390</td><td>216</td><td>195 Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>890</td><td>217</td><td>445 Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,390</td><td>218</td><td>695 Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,890</td><td>228</td><td>945 Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155 Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155 Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135 Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510 Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55 Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>620 Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>620 Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220 Design issue fee</td><td></td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300 Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130 Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50 Processing fee under 37 CFR § 1.17(q)</td><td></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180 Submission of Information Disclosure Statement</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40 Recording each patent assignment per property (times number of properties)</td><td>40.00</td></tr> <tr><td>146</td><td>710</td><td>246</td><td>355 Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355 For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>179</td><td>710</td><td>279</td><td>355 Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900 Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="4">Other fee (specify) _____</td><td></td></tr> </tbody> </table> | Large Entity Fee Code | Small Entity Fee Code   | Fee (\$)        | Fee Description | Fee Paid | 105 | 130 | 205                    | 65 Surcharge - late filing fee or oath |     | 127 | 50  | 227                   | 25 Surcharge - late provisional filing fee or cover sheet |     | 139 | 130 | 139                  | 130 Non - English specification |     | 147 | 2,520 | 147                    | 2,520 For filing a request for ex parte reexamination |     | 112 | 920* | 112                       | 920* Requesting publication of SIR prior to Examiner action |              | 113 | 1,840* | 113 | 1,840* Requesting publication of SIR after Examiner action |              | 115          | 110            | 215      | 55 Extension for reply within first month |           | 116   | 390    | 216                | 195 Extension for reply within second month |          | 117          | 890                | 217 | 445 Extension for reply within third month |  | 118           | 1,390         | 218             | 695 Extension for reply within fourth month |     | 128 | 1,890 | 228                      | 945 Extension for reply within fifth month |     | 119 | 310 | 219                                  | 155 Notice of Appeal |     | 120 | 310 | 220                                       | 155 Filing a brief in support of an appeal |     | 121 | 270 | 221   | 135 Request for oral hearing |     | 138 | 1,510 | 138  | 1,510 Petition to institute a public use proceeding |              | 140 | 110 | 240 | 55 Petition to revive - unavoidable |   | 141 | 1,240 | 241 | 620 Petition to revive - unintentional |  | 142 | 1,240 | 242 | 620 Utility issue fee (or reissue) |  | 143 | 440 | 243 | 220 Design issue fee |  | 144 | 600 | 244 | 300 Plant issue fee |  | 122 | 130 | 122 | 130 Petitions to the Commissioner |  | 123 | 50 | 123 | 50 Processing fee under 37 CFR § 1.17(q) |  | 126 | 180 | 126 | 180 Submission of Information Disclosure Statement |  | 581 | 40 | 581 | 40 Recording each patent assignment per property (times number of properties) | 40.00 | 146 | 710 | 246 | 355 Filing a submission after final rejection (37 CFR § 1.129(a)) |  | 149 | 710 | 249 | 355 For each additional invention to be examined (37 CFR § 1.129(b)) |  | 179 | 710 | 279 | 355 Request for Continued Examination (RCE) |  | 169 | 900 | 169 | 900 Request for expedited examination of a design application |  | Other fee (specify) _____ |  |  |  |  |
| Large Entity Fee Code  | Small Entity Fee Code  | Fee (\$)              | Fee Description   | Fee Paid        |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 105  | 130  | 205                   | 65 Surcharge - late filing fee or oath  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 127  | 50   | 227                   | 25 Surcharge - late provisional filing fee or cover sheet                     |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 139  | 130  | 139                   | 130 Non - English specification   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 147  | 2,520  | 147                   | 2,520 For filing a request for ex parte reexamination                         |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 112  | 920*   | 112                   | 920* Requesting publication of SIR prior to Examiner action                   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 113  | 1,840*   | 113                   | 1,840* Requesting publication of SIR after Examiner action                    |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 115  | 110  | 215                   | 55 Extension for reply within first month                                     |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 116  | 390  | 216                   | 195 Extension for reply within second month                                   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 117  | 890  | 217                   | 445 Extension for reply within third month                                    |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 118  | 1,390  | 218                   | 695 Extension for reply within fourth month                                   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 128  | 1,890  | 228                   | 945 Extension for reply within fifth month                                    |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 119  | 310  | 219                   | 155 Notice of Appeal  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 120  | 310  | 220                   | 155 Filing a brief in support of an appeal                                    |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 121  | 270  | 221                   | 135 Request for oral hearing  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 138  | 1,510  | 138                   | 1,510 Petition to institute a public use proceeding                           |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 140  | 110  | 240                   | 55 Petition to revive - unavoidable   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 141  | 1,240  | 241                   | 620 Petition to revive - unintentional  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 142  | 1,240  | 242                   | 620 Utility issue fee (or reissue)  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 143  | 440  | 243                   | 220 Design issue fee  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 144  | 600  | 244                   | 300 Plant issue fee   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 122  | 130  | 122                   | 130 Petitions to the Commissioner   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 123  | 50   | 123                   | 50 Processing fee under 37 CFR § 1.17(q)                                      |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 126  | 180  | 126                   | 180 Submission of Information Disclosure Statement                            |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 581  | 40   | 581                   | 40 Recording each patent assignment per property (times number of properties) | 40.00           |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 146  | 710  | 246                   | 355 Filing a submission after final rejection (37 CFR § 1.129(a))             |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 149  | 710  | 249                   | 355 For each additional invention to be examined (37 CFR § 1.129(b))          |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 179  | 710  | 279                   | 355 Request for Continued Examination (RCE)                                   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 169  | 900  | 169                   | 900 Request for expedited examination of a design application                 |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| Other fee (specify) _____  |  |                       |   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| <p><b>FEE CALCULATION</b></p> <p><b>1. BASIC FILING FEE</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>710</td><td>201</td><td>355 Utility filing fee</td><td>740.00</td></tr> <tr><td>106</td><td>320</td><td>206</td><td>160 Design filing fee</td><td></td></tr> <tr><td>107</td><td>490</td><td>207</td><td>245 Plant filing fee</td><td></td></tr> <tr><td>108</td><td>710</td><td>208</td><td>355 Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75 Provisional filing fee</td><td></td></tr> <tr><td colspan="4" style="text-align: right;">SUBTOTAL (1)</td><td>\$740.00</td></tr> </tbody> </table> <p><b>2. EXTRA CLAIM FEES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>29</td> <td>-20** = 9</td> <td>18.00</td> <td>162.00</td> </tr> <tr> <td>Independent Claims</td> <td>3</td> <td>-3** = 0</td> <td>84.00 = 0.00</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>Large Entity Small Entity</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9 Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40 Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135 Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>80</td><td>209</td><td>40 ** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9 ** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="4" style="text-align: right;">SUBTOTAL (2)</td><td>\$162.00</td></tr> </tbody> </table> | Large Entity Fee Code  | Small Entity Fee Code | Fee (\$)  | Fee Description | Fee Paid        | 101      | 710 | 201 | 355 Utility filing fee | 740.00                                 | 106 | 320 | 206 | 160 Design filing fee |   | 107 | 490 | 207 | 245 Plant filing fee |                                 | 108 | 710 | 208   | 355 Reissue filing fee |   | 114 | 150 | 214  | 75 Provisional filing fee |   | SUBTOTAL (1) |     |        |     | \$740.00   | Total Claims | Extra Claims | Fee from below | Fee Paid | 29  | -20** = 9 | 18.00 | 162.00 | Independent Claims | 3   | -3** = 0 | 84.00 = 0.00 | Multiple Dependent |     |  |  | Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid                                    | 103 | 18  | 203   | 9 Claims in excess of 20 |  | 102 | 80  | 202 | 40 Independent claims in excess of 3 |                      | 104 | 270 | 204 | 135 Multiple dependent claim, if not paid |  | 109 | 80  | 209 | 40 ** Reissue independent claims over original patent |                              | 110 | 18  | 210   | 9 ** Reissue claims in excess of 20 and over original patent |   | SUBTOTAL (2) |     |     |     | \$162.00                            | <p><b>SUBTOTAL (3)</b> <span style="float: right;">\$40.00</span></p> <p><small>*Reduced by Basic Filing Fee Paid</small></p> |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| Large Entity Fee Code  | Small Entity Fee Code  | Fee (\$)              | Fee Description   | Fee Paid        |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 101  | 710  | 201                   | 355 Utility filing fee  | 740.00          |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 106  | 320  | 206                   | 160 Design filing fee   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 107  | 490  | 207                   | 245 Plant filing fee  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 108  | 710  | 208                   | 355 Reissue filing fee  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 114  | 150  | 214                   | 75 Provisional filing fee   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| SUBTOTAL (1)   |  |                       |   | \$740.00        |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| Total Claims   | Extra Claims   | Fee from below        | Fee Paid  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 29   | -20** = 9  | 18.00                 | 162.00  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| Independent Claims   | 3  | -3** = 0              | 84.00 = 0.00  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| Multiple Dependent   |  |                       |   |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| Fee Code (\$)  | Fee Code (\$)  | Fee Description       | Fee Paid  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 103  | 18   | 203                   | 9 Claims in excess of 20  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 102  | 80   | 202                   | 40 Independent claims in excess of 3  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 104  | 270  | 204                   | 135 Multiple dependent claim, if not paid                                     |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 109  | 80   | 209                   | 40 ** Reissue independent claims over original patent                         |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| 110  | 18   | 210                   | 9 ** Reissue claims in excess of 20 and over original patent                  |                 |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |
| SUBTOTAL (2)   |  |                       |   | \$162.00        |                 |          |     |     |                        |  |     |     |     |                       |   |     |     |     |                      |                                 |     |     |       |                        |   |     |     |      |                           |   |              |     |        |     |  |              |              |                |          |   |           |       |        |                    |   |          |              |                    |     |  |  |               |               |                 |   |     |     |       |                          |  |     |     |     |                                      |                      |     |     |     |   |  |     |     |     |   |                              |     |     |       |  |   |              |     |     |     |                                     |   |     |       |     |  |  |     |       |     |                                    |  |     |     |     |                      |  |     |     |     |                     |  |     |     |     |                                   |  |     |    |     |  |  |     |     |     |  |  |     |    |     |   |       |     |     |     |   |  |     |     |     |  |  |     |     |     |   |  |     |     |     |   |  |                           |  |  |  |  |

|                   |                                |                                   |                   |
|-------------------|--------------------------------|-----------------------------------|-------------------|
| SUBMITTED BY      |                                | Complete (if applicable)          |                   |
| Name (Print/Type) | Michelle R. Whittington        | Registration No. (Attorney/Agent) | 43,844            |
| Signature         | <i>Michelle R. Whittington</i> | Telephone                         | (602) 382-6275    |
|                   |                                | Date                              | December 20, 2001 |

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